

Yeast Lysing Protocol

Y-PER Plus, Dialyzable Yeast Protein Extraction

YPER_Yeast_Protein_Extract_Reag_UG.pdf

Materials

- ☐ Y-PER Plus Reagent
- ☐ 15mL Falcon Tubes (1 per sample)
- ☐ Yeast Culture
- ☐ 1.5mL microcentrifuge tube (1 per sample) *a larger, final storage container may be needed if the final volume of the purified protein is larger than 1.5mL*

Procedure

- Weigh an empty 15mL falcon tube and record its weight
- Transfer each yeast culture to a 15mL Falcon Tube
- Centrifuge each falcon tube at $\sim 3000 \times g$ for 5 min at 4°C to form a pellet
- Discard the supernatant
- Reweight the falcon tubes
- Resuspend cells in 5mL Y-PER plus reagent for every 1g pellet weight (Optional: To increase yields, add DTT to the Y-PER plus reagent to equal a final concentration of 0.1M)
- Agitate gently for 20 minutes at room temperature (place on slow tabletop shaker)
- Centrifuge at $13,000 \times g$ for 5 minutes
- Extract the supernatant and place into and 1.5mL microcentrifuge tube *a larger, final storage container may be needed if the final volume of the purified protein is larger than 1.5mL*
- Store tube at -20°C if waiting longer than an hour. Store tube at -80°C if storing longer than a day.